

# Acrylic PSA

## 1. For Protection Film①

### 《Feature》

- Low peel strength (Initial and After heating)
- Good wet ability

		OP-1420V10
Liquid property	Appearance	Slightly yellow clear liquid
	NV	35-45 %
	Viscosity (mPa·s/23 °C)	2000~5000
PSA property	Transmittance	> 90 %
	Haze	0.8 %
	Initial peel strength	6 (gf/25mm)
	After heating (150 °C × 90 min)	12 (gf/25mm)
	Wet heat resistance (60°C90 % × 720 h)	13 (gf/25mm)
	Heat resistance (80 °C × 720 h)	13 (gf/25mm)

Peel speed : 300 mm/min

Adherend : Hard coated PET (Aica Z-770UH) / PSA 10 $\mu$  / PET 50 $\mu$  (Toyobo A-4100)

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved



# Acrylic PSA

## 2. For Protection Film②

### 《Feature》

- Low peel strength **even at high speed peeling**
- Good wet ability

		OP-1460-2	
Liquid property	Appearance	Slightly yellow clear liquid	
	NV	40-50 %	
	Viscosity (mPa·s/23 °C)	1000~5000	
PSA property	Transmittance		> 90 %
	Haze		0.8 %
	Peel strength (180° Peel)	Peel speed (300mm/min)	1 (gf/25mm)
		Peel speed <b>(20M/min)</b>	18 (gf/25mm)
		Peel speed <b>(30M/min)</b>	24 (gf/25mm)
	Peel strength After 150°C1hr (180° Peel)	Peel speed (300mm/min)	2 (gf/25mm)
		Peel speed <b>(20M/min)</b>	23 (gf/25mm)
Peel speed <b>(30M/min)</b>		29 (gf/25mm)	

Glass/ PSA 20 $\mu$  / PET 50 $\mu$  (Toyobo A-4100)

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved



# Acrylic PSA

## 3. For Protection Film③

### 《Feature》

- **Even acrylic PSA is middle peel strength for fluorine glass**
- **Good wet ability**

		OP-1470	OP-1470-3	
Liquid property	Appearance	Slightly yellow clear liquid	Slightly yellow clear liquid	
	NV	45-55%	50-60%	
	Viscosity (mPa·s/23 °C)	1000~4000	500~1000	
PSA property	Transmittance	> 90 %	> 90 %	
	Haze	0.8 %	0.8 %	
	Peel strength (180° Peel),	AF-glass	24 (gf/25mm)	125 (gf/25mm)
		SUS304	550 (gf/25mm)	-

Peel speed : 300 mm/min

Adherend : AF-glass / PSA 20 $\mu$  / PET 25 $\mu$  (Toyobo A-4100)

Adherend : SUS304 / PSA 20 $\mu$  / PET 25 $\mu$  (Toyobo A-4100)

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved

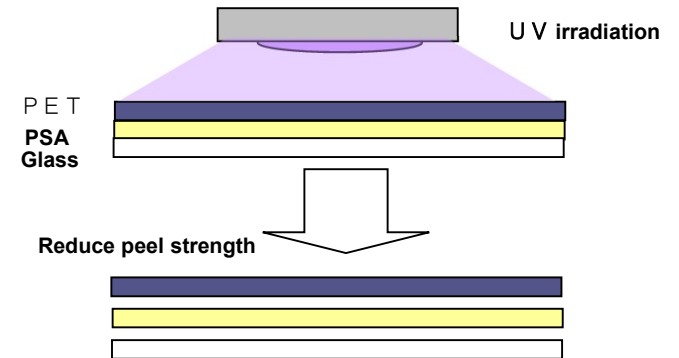


# Acrylic PSA

## 4. For Dicing tape

### 《Feature》

- **Reduce peel strength by UV irradiation**
- H is high peel strength type, L is low peel strength type
- We can adjust the peel strength to your request peel strength.



Item		OP-3800LL	OP-3800LL-2	OP-3800HH	OP-3800HL	
Liquid property	Appearance	Slightly yellow clear liquid	Slightly yellow clear liquid	Slightly yellow clear liquid	Slightly yellow clear liquid	
	NV (%)	35 - 45	40 - 50	40 - 50	40 - 50	
	Viscosity (mPa · s/23°C)	1500 - 4500	2000 - 6000	1000 - 5000	1000 - 5000	
	Base polymer	Acrylic polymer	Acrylic polymer	Acrylic polymer	Acrylic polymer	
PSA property	Peel strength *1 (gf/25mm)	Before UV	400	200	1300	800
		After UV *3	10	10	10	10
	Elongation *2 (%)	After UV *3	-	30	20	50

Peel speed : 300 mm/min

Adherend : SUS304 / PSA 10 $\mu$  / PO 80 $\mu$

Recommend UV condition : High pressure mercury lamp, 200 mJ/cm<sup>2</sup> , 150 mW/cm<sup>2</sup>

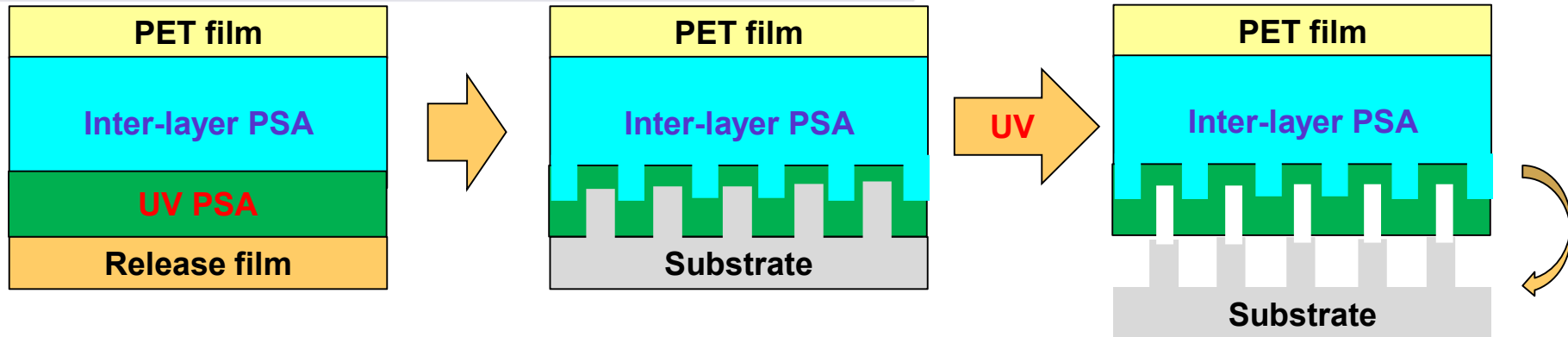
Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved



# Acrylic PSA

## 5. For BG tape



		OP-9303	OP-3840-1
		Inter-layer PSA	UV PSA
Liquid Properties	Solvent	Ethyl Acetate	Ethyl Acetate
	NV	40 - 50	30 - 40
	Vis	1,000 - 5,000	1,000 - 4,000
PSA Properties	FT	90 μ	10 μ
	Step Absorption (40μ) *1	OK	
	Holding Power *2	No Gap	
	Peel strength *3 (gf/25mm)	Before UV	800
After UV *4		10	

\*1: 50μPET/PSA100μ/40μ Print Glass

\*2: 50μPET/PSA100μ, 25 × 25mm/Glass, Load 1kg at 23°C for 24hr

\*3: 50μPET/PSA100μ/SUS, 180°Peel, 300mm/min

\*4: High pressure mercury lamp, 200mJ/cm<sup>2</sup>, 150mW/cm<sup>2</sup>

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

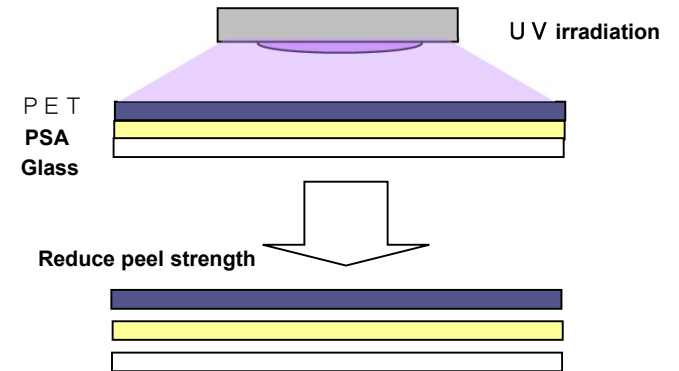
The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved



## 6. For Process Protection

《Feature》

- **Rise peel strength** by UV irradiation
- We can adjust the peel strength to your request peel strength.



		OP-3900
Liquid property	Appearance	Slightly yellow clear liquid
	NV	50-60 %
	Viscosity (mPa·s/23 °C)	1,000-3,000
PSA Property	Peel strength (Initial)	7 gf/25mm
	Peel strength (after UV)	1100 gf/25mm

Peel speed : 300 mm/min

Adherend : Glass / PSA 13 $\mu$  / PET 75 $\mu$  (Toyobo A-4100)

Recommend UV condition : LED-UV lamp, 2,000 mJ/cm<sup>2</sup> , 100 mW/cm<sup>2</sup>

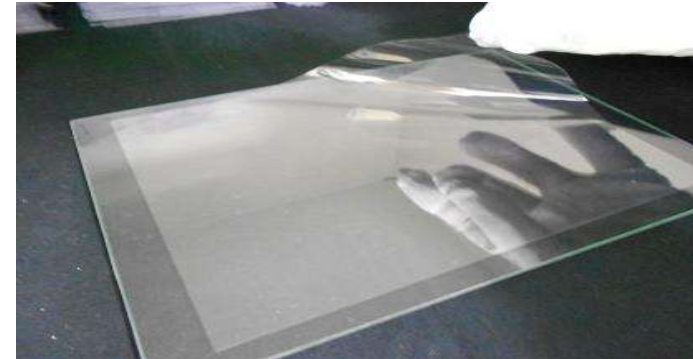
Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

# Acrylic PSA

## 7. High peel strength type for ASF

### 《Feature》

- Good Anti-scattering for Glass
- High peel strength
- Good repair ability



		OP-3510-2	OP-3511
Liquid property	Appearance	Slightly yellow clear liquid	Slightly yellow clear liquid
	NV	40-50 %	40-50 %
	Viscosity (mPa·s/23 °C)	4,000 - 7,000	4,000 - 7,000
PSA property	Peel strength (after 30min)	11 N/25mm	<b>20N/25mm</b>
	Peel strength (after 24hr)	25N/25mm	25N/25mm
	Humidity resistance (85°C85 %×72 h)	Non bubble Hz 0.30 → 0.32	Non bubble Hz 0.27 → 0.28
	Elastic modulus (G')1Hz/25°C	0.57 MPa	1.3 MPa
	Remarks	Good Rework	High Initial strength

Peel speed 300mm/min

Adherend : Glass / PSA25 $\mu$  / 50 $\mu$ PET (Toyobo A-4100)

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved

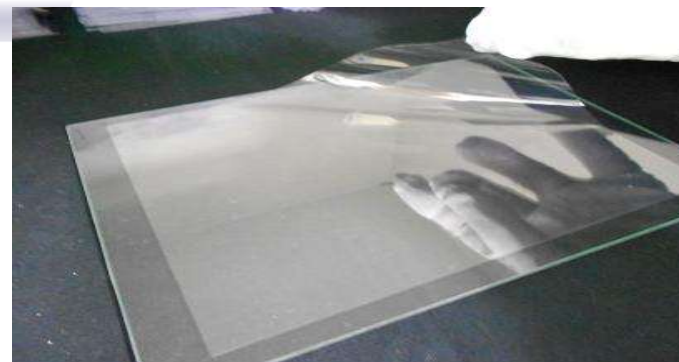


# Acrylic PSA

## 8. Thin thickness type for ASF

### 《Feature》

- Good Anti-scattering for Glass
- **High peel strength at thin thickness**
- Good repair ability



		OP-3511	OP-3511-9	OP-3511-10
Liquid property	Appearance	Slightly yellow clear liquid	Slightly yellow clear liquid	Slightly yellow clear liquid
	NV	42-46 %	40-50 %	35-45 %
	Viscosity (mPa·s/23 °C)	4,500 - 6,500	2,000 - 6,000	2,000 - 6,000
PSA property	<b>Peel strength (after 24hr), 10umt</b>	<b>17 N/25mm</b>	<b>21 N/25mm</b>	<b>25 N/25mm</b>
	Humidity resistance (85°C85 %×72 h)	Non bubble	Non bubble	Non bubble
	Elastic modulus (G')1Hz/25°C	1.3 Mpa	<b>6.2 MPa</b>	<b>5.0 MPa</b>
	Feature	S.t.d.	Higher Modulus	Higher Peel strength

Peel speed 300mm/min, Adherend : Glass / PSA / 50 $\mu$ PET (Toyobo A-4100)

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved





# Acrylic PSA

## 9. Acid free for OCA

### 《Feature》

- **High refractive index adhesive**
- **Good adhesion to Glass and high peel strength**

		OP-5100
Liquid property	Appearance	Slightly yellow clear liquid
	NV (%)	35 - 45
	Viscosity (mPa·s/23°C)	2,000 - 4,000
PSA property	Peel strength (gf/25mm)	2050
	Haze (%)	0.11
	Wet heat resistance (85°C85% × 72h)	Non bubble Haze Initial 0.11% → After test 0.20 %
	Refractive index $n_D^{25}$	1.51

Peel speed 300mm/min

Adherend : Glass / PSA20 $\mu$  / 50 $\mu$ PET

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved



# Acrylic PSA

## 10. Hot melt type for OCA

### 《Feature》

Excellent property of absorbing level difference when you put on a adherend at high temperature  
(Recommend adhesion condition : Auto clave 0.05MPa, 70°C×5min)

		OP-9300
Liquid property	NV	40 - 50 %
	Viscosity (mPa·s/23 °C)	2,000 - 6,000
PSA property	Peel strength (PET / PSA100μ / Glass)	16 N/25mm
	Elastic modulus (G' ) 1Hz/25°C	2.0×10 <sup>5</sup>
	Property of absorbing level difference (Glass / PSA100μ / 30μ Printed glass)	○
After UV	Peel strength (PET / PSA100μ / Glass)	23 N/25mm
	Gel rate	85 %
	Dielectric constant (1MHz)	3.6
	Wet heat resistance (Glass / PSA 100 μ / Glass, 85°C85 % × 168 h)	Non bubble Haze Initial 0.34 → After test 0.38 %
	Q-UV (340nm, 0.63 W/m <sup>2</sup> , 60°C 4h exposure→4h stay ×12 cycles)	Non bubble

After UV condition : High pressure mercury lamp  
2000mJ/cm<sup>2</sup> (150mW/cm<sup>2</sup>)

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved

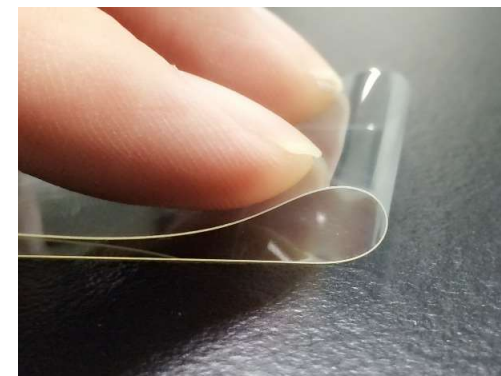


# Acrylic PSA

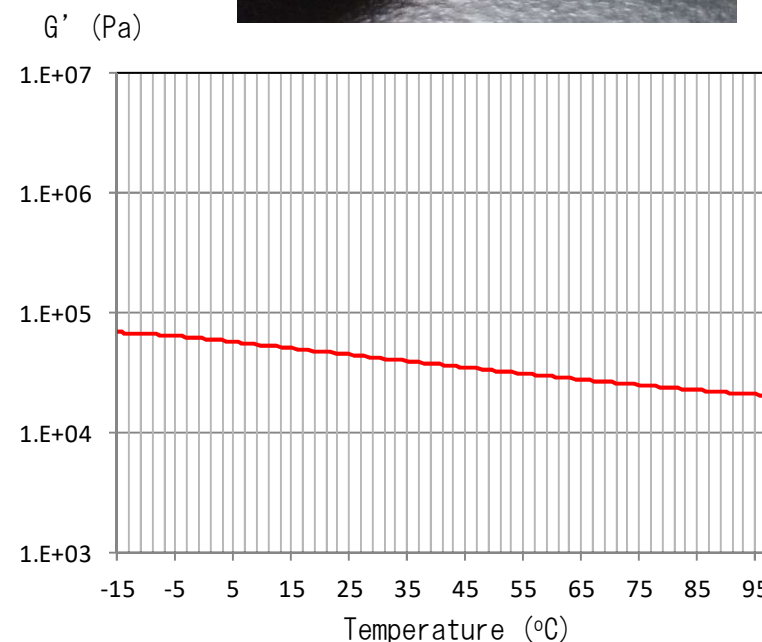
## 11. OCA with less temp. dependence

### 《Feature》

- Little temperature dependence of Elastic modulus
- Acid free type



		OP-4800	
Liquid property	Appearance	Slightly yellow liquid	
	NV	20 - 30 %	
	Solvent	Ethyl Acetate	
	Viscosity (mPa·s/23 °C)	2,000 - 6,000	
PSA property *1	Peel strength (PET/ PSA50 μ / Glass)	11N/25mm	
Storage modulus *2	Temperature	G'	Tan δ
	-15 °C	0.07 MPa	0.59
	0 °C	0.06 MPa	0.54
	25 °C	0.04 MPa	0.39
	50 °C	0.03 MPa	0.32
	85 °C	0.02 MPa	0.30



\*1 : C. H. S. 300mm/min

\*2 : DMA (f=1Hz, FT:400-500um)

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

The data and contents indicated in this sheet are based on the results of research and investigation in the company, and it shall be that they are highly reliable. However, it is not a thing to guarantee the use result of the customer. Moreover, since it may be different with the purpose of use and an operating condition, please confirm by the preliminary examination. copyright©AICA KOGYO CO.,LTD All Rights Reserved



## 12. For Heat resistance tape

### 《Feature》

- Good heat resistance Acrylic PSA
- **Can be peeled off without adhesive residue after High temperature process**
- Non-silicone type

		OP-1480-3		
Liquid property	Appearance	Slightly yellow clear liquid		
	NV	20-30 %		
	Viscosity(mPa·s/23°C)	1,000 - 4,000		
PSA property	Peel strength *1	Initial*2	0.6N/25mm	No residue
		After 200°C × 1h*3	0.7N/25mm	No residue
		After 220°C × 1h*3	0.7N/25mm	No residue
		After 250°C × 1h*3	0.5N/25mm	No residue

\*1: 180°Peel, 25μ PI(Kapton 100H)/PSA 5μ/SUS

\*2: After 0.5h from lamination

\*3: After 0.5h from lamination → heating → Cool to r.t.

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.

## 13. Containing Acidic Group for PSA

### 《Feature》

- **High peel strength even immediately after lamination**
- **OP-7000T: High Biomass Degree**

		OP-7000V12		OP-7000T1		OP-7000T2	
Liquid property	Appearance	Slightly yellow clear liquid		Slightly yellow clear liquid		Slightly yellow clear liquid	
	NV	25 - 35 %		30 - 40 %		30 - 40 %	
	Viscosity (mPa·s/23°C)	3,000 - 8,000		1,000 - 4,000		1,000 - 5,000	
PSA property	Adherend	Glass	SUS	Glass	SUS	Glass	SUS
	Peel strength* <sup>1</sup> (initial)	13N/25mm	10N/25mm	30N/25mm	27N/25mm	27N/25mm	20N/25mm
	Peel strength* <sup>1</sup> (after 24hr)	15N/25mm	13N/25mm	31N/25mm	29N/25mm	29N/25mm	24N/25mm
	Repair ability	○		×		○	
	Wet heat resistance (85°C85 % × 72 h)	Non bubble		Non bubble		Non bubble	
	<b>Biomass degree*<sup>2</sup></b>	0%		35 - 40%		30 - 35%	

\*1: 180°Peel, 300mm/min, 50μ PET/PSA 25μ/Glass or SUS

\*2: Calculated value

Depending on the base material and composition to be laminated, it may contradict the patents of other companies, so please use it after confirming on your own responsibility.